

GALEMIN, I.M.; SHATILIN, A.L.

Drawing pig iron from the hearth before blowing out a blast  
furnace. Metallurg 8 no.124-6 Ja '63. (MIRA 1611)  
(Blast furnaces—Maintenance and repair)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001548710018-6

Chlorination of the sapprop of liquid smelting products from  
a blast furnace with two iron matches. Metallurg 10 no.2  
April " 1958.

Chlorination of the sapprop of liquid smelting products from  
a blast furnace with two iron matches. Metallurg 10 no.2  
April " 1958.  
(MIRA 18:3)

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CIA-RDP86-00513R001548710018-6"

ЗАЩИТНАЯ МАРКИРОВКА

KONDRAT'YEV, N.Ye., kandidat tekhnicheskikh nauk; ANDREYANOV, V.G.,  
kandidat tekhnicheskikh nauk, redaktor; SHATILINA ~~M.V.~~, re-  
daktor; BRAYNINA, M.I., tekhnicheskiy redaktor.

[Calculation of wind movements and changes in reservoir banks]  
Raschety vetrovogo volneniya i pereformirovaniya beregov vodo-  
khranilishch. Pod red. V.G.Andreianova. Leningrad, Gidrometeoro-  
logicheskoe izd-vo, 1953. 106 p. [Microfilm] (MIRA 8:2)  
(Reservoirs) (Winds) (Waves)

KUZ'MIN, P.P., kand.geograf.nauk; SHATILINA, M.K., otv.red.; SOLOVEYCHIK, A.A.,  
tekhn.red.

[Effect of forests on the thawing of snow] Vliyanie lesa na  
snegotaianie. Leningrad. Gidrometeor.izd-vo 1954. 67 p. (Leningrad.  
Gosudarstvennyi gidrologicheskii institut. Trudy, no.42)  
(MIRA 12:1)

(Thawing)

(Forest influences)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001548710018-6

YEVGENOV, Nikolay Ivanovich; SNEZHINSKIY, V.A., redaktor; SHATILINA, M.K.,  
redaktor; SOLOVEYCHIK, A.A., tekhnicheskij redaktor.

[Ocean currents] Morskie techeniya. Leningrad, Gidrometeorologicheskoe  
izd-vo, 1954. 106 p. (MIRA 8:4)  
(Ocean currents)

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001548710018-6"

BOCHKOV, A.P., kandidat tekhnicheskikh nauk; SOKOLOVSKIY, D.L., doktor tekhnicheskikh nauk, professor, redaktor; SHATILINA, M.K., redaktor; SOLOVEYCHIK, A.A., tekhnicheskiy redaktor.

[Influence of forests and afforestation improvement measures on the flow of rivers in the forest steppe zone of European Russia] Vliyanie lesa i agrolesomeliorativnykh meropriiatii na vodnost' rek lesostepnoi zony evropeiskoi chasti SSSR. Pod red. D.L.Sokolovskogo. Leningrad, Gidrometeorologicheskoe izd-vo, 1954. 133 p. [Microfilm] (MIRA 7:11)  
(Forest influences) (Rivers)

ZAYKOV, B.D., doktor geograficheskikh nauk, professor; SHATILINA, M.K.,  
redaktor; BRAYNINA, M.I., tekhnicheskiy redaktor

[High waters and floods in rivers of the U.S.S.R. during the  
historical period] Vysokie polovod'ia i povodki na rekakh SSSR  
za istoricheskoe vremya. Leningrad, Gidrometeorologicheskoe  
izd-vo, 1954. 133 p.  
(Floods) (MLRA 7:10)

ALEKIN, Oleg Aleksandrovich; SHATILINA, M.G., redaktor; VORONKOV, P.P.,  
otvetstvennyy redaktor; FLAUM, M.Ya., tekhnicheskiy redaktor.

[Chemical analysis of inland waters; study under stationary  
conditions] Khimicheskii analiz vod sushi; pri statsionarnom  
ikh izuchenii. Leningrad, Gidrometeorologicheskoe izd-vo, 1954.  
199 p. (MLRA 8:2)  
(Water--Analysis)

ANDREYEVA, Yekaterina Vladimirovna; KOLMSNIK, S.V., redaktor; SHATILINA,  
M.K., redaktor; BRAYNINA, M.I., tekhnicheskiy redaktor

[IU.M.Shokal'skii, oceanographer, meteorologist, geographer]  
IU.M.Shokal'skii - okeanograf, meteorolog, geograf. Izd. 2-oe,  
Leningrad, Gidrometeor. izd-vo, 1956. 52 p. (MLRA 10:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Kolesnik)  
(Shokal'skii, Iulii Mikhailovich, 1856-1940)

DUVANIN, Aleksandr Ivanovich; SNEZHINSKIY, V.A., otvetstvennyy redaktor;  
SHATILINA, M.K., redaktor; BRAYINA, M.I., tekhnicheskiy redaktor

[Sea level] Uroven' moria. Leningrad, Gidrometeorologicheskoe  
izd-vo, 1956. 58 p. (MLRA 10:4)  
(Ocean)

1956

POPOV, Yevgeniy Grigor'yevich; SHATILINA, M.K., red.; FLAUM, M.Ya., tekhn.  
red.

[Analysis of the runoff formation of plains rivers] Analiz formiro-  
vania stoka ravninnykh rek. Leningrad, Gidrometeor. izd-vo, 1956.  
130 p. (MIRA 11:7)

(Rivers) (Runoff)

DIMAKSYAN, Artashes Movsesovich; ZBORYKIN, K.A., otvetstvennyy redaktor;  
SHATILINA, M.K., redaktor; SHUMIKHIN, K.F., tekhnicheskij redaktor

[New telemetering instruments for hydrometeorological purposes]  
Novye teleizmeritel'nye gidrometeorologicheskie pribory.  
Leningrad, Gidrometeor. izd-vo, 1957. 135 p. (MLRA 10:5)  
(Meteorological instruments) (Telemetering)

BOGOLYUBOVA, Irina Vladimirovna; ZAYKOV, B.D., doktor geograficheskikh  
nauk, redaktor; SHATILINA, M.K., redaktor; BRAYNINA, M.I.,  
tekhnicheskiy redaktor

[Eroding streams and their extension over the territory of the  
U.S.S.R.] Selevye potoki i ikh rasprostranenie na territorii SSSR.  
Pod red. B.D.Zaikova. Leningrad, Gidrometeor. izd-vo, 1957. 150 s.  
(Erosion) (MLR 10:10)

KALININ, Genadiy Pavlovich; MAKAROVA, Tat'yana Timofeyevna; SOMOV, N.V.,  
otvetstvennyy redaktor; SHATILINA, M.K., redaktor; FLAUM, M.Ya.,  
tekhnicheskiy redaktor.

[Hydrometeorological factors determining the occurrence of high  
water in the flat land rivers of European Russia] Gidrometeorologi-  
cheskie usloviia formirovaniia vysokogo polovod'ia na ravninnykh  
rекakh Evropeiskoi territorii SSSR. Leningrad, Gidrometeoizd-  
vo 1957. 177 p.

(MLRA 10:6)

(Rivers)

## PHASE I BOOK EXPLOITATION

361

Moscow. Tsentral'nyy institut prognozov.

Trudy. vyp. 49: Voprosy dologosrochnykh prognozov (Transactions. v. 49: Problems in Long-range Forecasting) Leningrad, Gidrometeoizdat, 1957. 287 p. 1,250 copies printed.

Sponsoring Agency: Glavnaya upravleniya gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR.

Ed.: (title page): Morskoy, G.I.; Ed. (inside book): Shatilina, M.K.; Tech. Ed.: Braynina, M.I.

PURPOSE: The collection of articles is intended for specialists in the field of weather forecasting, especially those interested in long-term prognostication.

COVERAGE: The articles in this collection illustrate the present position of long-range weather forecasting. The problems discussed include the formulation of large mid-monthly

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temperature anomalies, the analysis of cycles and anti-cyclogenesis in meridional circulation and factors causing the appearance of autumnal frosts together with possibilities for forecasting them.

TABLE OF  
CONTENTS:

Morskoy, G.I.; Semenov, V.G.; and Kats, A.L. Formation of Air Temperature Anomalies on Soviet Territory in the Winter Months

3

The authors define the term anomaly (or a larger anomaly) as a departure from a certain average climatological pattern, or, in other words, from the average temperature during a given period. The authors survey the occurrence of mean temperature anomalies during three winter months (December, January, and February) and analyze possibilities of forecasting such anomalies for one month in advance. In general, wide departures

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from average temperatures are believed to be caused by disturbances in the interrelationship between air circulation and thermal conditions at the surface layer of the atmosphere. The entire article is divided into three chapters each treating one separate factor causing the occurrence of anomalies. In the first chapter, G.I. Morskoy states that the horizontal transfer of air masses is the main factor in the formation of average temperature anomalies. He also deduces the ratio between the zonal circulation of the atmosphere and the general thermal conditions of the atmosphere. The author suggests a new mathematical approach in calculating the mean monthly temperature anomalies for absolute topography at the 500 millibar level. In Chapter 2, V.G. Semenov analyzes the influence of the surface layer of the atmosphere on the transfer of air masses and how this transfer causes the occurrence of anomalies. In the third chapter, A.L. Kats surveys the meridional and latitudinal circulation of the atmosphere and evaluates the contribution

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of this transfer of air masses to temperature anomalies. The meridional and latitudinal circulations are calculated for a number of regions and altitudes in the Northern hemisphere. The number of focuses on the Soviet territory, where large-scale anomalies are formed during the three winter months, is found to fluctuate between 2 and 4. This article is based on the results of an analysis of 8 forecasts made on the 25th of each preceding month, for December, January and February of 1955-57. Data on forecasts were compiled separately by three different bureaus of the Central Institute of Forecasting (TSIP), viz., the long-term prediction division (ODPP), the division of dynamic meteorology (ODM), and the division for methodological improvement of forecasting service (ORUMDPP). There are 55 maps, 52 tables in the text and 24 tables in the appendix. There are 30 references, 16 of which are Soviet, 11 are English and 3 are German.

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Rafailova, Kh. Kh. Influence of the Artic Region on the  
Character of Meridional Circulation of Air in Europe and  
Western Siberia.

181

The circulation of atmosphere in the Arctic was studied by B.P. Mul'tanovskiy. He concluded that the polar region is not a solid high-pressure zone, but, contrary to previously expressed opinions, is composed of a number of cyclonic and anticyclonic areas. Other Soviet scientists, namely B.L. Dzerdzevskiy and L.A. Vitel's confirmed Mul'tanovskiy's theory and proved that all circulation phenomena such as occur in moderate zones, exist also in the polar zone. The present article analyzes the effect of air circulation in the polar area on the behavior of meridional processes, carrying cold arctic air masses to temperate zones and thus bearing directly on changes in weather. Consequently, any weather forecasting in the moderate zone must account for meridional processes drifting in from the North. The author

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examines four possible types of thermobaric fields in the troposphere over the Arctic and also a number of variations. Maps accompany this analysis and provide data on absolute and relative topography at 500 millibar level for all the types involved. The author concludes that a certain definite character of the baric field in the Arctic produces a definite type of meridional movements and that thermal conditions of air masses in the Arctic are good indices for the developing synoptic situation in the moderate zone. There are 11 tables, 22 maps, and 17 references, of which 13 are Soviet and 4 are English.

Bagrov, N.A. Application of the Principle of Similarity in  
Forecasting Mean Monthly Air Temperatures 231

By the "principle of similarity" the author understands an attempt to trace similarities (analogies) in the development of two or more atmospheric macroprocesses. The principle can be applied in long-term forecasts when an atmospheric process bears a similarity to a process which occurred some time in the past but during the same season and in the same locality.

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The author analyzes the applications of this principle and refers to S.T. Pagova who opposed it and to L.A. Vitel's who modified it. The latter worked out a theory of rhythmicity (rhythrical recurrence) of temperature processes. Vitel's theory is given in brief, but the author of the article rejects it. The author establishes indices of similarity and demonstrates their applicability in deducing mean monthly temperatures. The data used cover a period of over 50 years and are derived from 45 unspecified geographical localities in Russia shown on an enclosed map. The percentage of correct forecasts by the principle of similarity has hardly ever exceeded 70 percent; on an average it amounted to 63.2 percent. The author urges expansion of this method of study and the inclusion of localities outside Russia. He suggests examination of other factors, such as near-surface pressure, to which the principle of similarity could be applied. There are 8 maps, 7 tables and 14 references, of which 8 are Soviet, 2 German and 4 English.

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Zverev, N.I. Influence of Ocean and Land Temperature on  
Atmospheric Circulation During the Warm Season in the Far  
East

250

The author analyzes the influence of thermal nonuniformity of the surface layer on the atmospheric circulation and discusses some implications from observation results pertinent to weather forecasting. The author defines nonuniformity as the phenomenon of the accumulation of heat in the surface layer and the unequal distribution of this heat in latitudinal and meridional directions. The article consists of two chapters. One examines the formation of temperature contrasts between ocean and land and the other examines the question of periodicity, i.e., the existence of definite natural temperature intervals (from 6 to 12 days), and the connection of such periods with temperatures of the near-surface air layer. The subject of temperature variation was studied by personnel of the long-term forecast division of the Far Eastern Scientific Research Institute of Hydrometeorology (DV NIGMI). The Institute

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compiled daily temperature maps for sea and land in 1934-38.  
In addition, the author availed himself of the material  
collected in the archives of the Central Institute of Fore-  
casts (TSIP). There are 12 maps, 6 tables, and 8 Soviet  
references.

Byalynitskaya, V.G., and Ped', D.A. Formation of Night Frosts  
in Ukraine 264

The authors place night frosts in Ukraine into the category  
of those that are dangerous, i.e., capable of damaging crops.  
This type of frosts is common both in autumn and in spring,  
but the authors analyze only the occurrence of frosts in May.  
Crimea is included in this study. Tabular material includes  
statistics of occurrence and duration of frosts. The article  
analyzes the thermobaric field during the occurrence of frosts  
and compares it with the field when frost is absent. Pertinent

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indices are deduced and data given on how to forecast the onset of frosts one to two days in advance. There are 13 tables in the text and 2 in the appendix, 8 maps, 2 drawings, and 16 references, of which 14 are Soviet and 2 are English.

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MOLCHANOV, I.V. otvetstvennyy redaktor; SHATILINA, M.K., redaktor;  
VLADIMIROV, O.G., tekhnicheskiy redaktor

[ Instructions for hydrometeorological stations and posts.  
Nastavlenie gidrometeorologicheskim stantsiam i postam] Leningrad,  
Gidrometeor. izd-vo. No.7, pt.1. [Hydrological observations of lakes  
and reservoirs] Gidrologicheskie nablyudeniiia na ozerakh i  
vodokhranilishchakh. 1957. 239 p. (MLRA 10:5)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeoro-  
logicheskoy sluzhby.  
(Hydrology)

SOLOMENTSEV, Nikolay Afanas'yevich; ZVORYKIN, K.A., otvetstvennyy red.;  
SHATILINA, M.K., red.; SOLOVEYCHIK, A.A., tekhn.red.

[Hydrometry] Gidrometriia. Izd. 2-oe, perer. Leningrad, Gidro-  
meteor. izd-vo, 1957. 458 p. (MIRA 11:5)  
(Hydrology) (Stream measurements)

POPOV, Yevgeniy Grigor'yevich; GUREVICH, M.I., otvetstvennyy redaktor;  
SHATILINA, M.K., redaktor; BRAYMINA, M.I., tekhnicheskiy redaktor

[Hydrological forecasts] Gidrologicheskie prognozy. Leningrad,  
Gidrometeor. izd-vo, 1957. 460 p. (MLRA 10:1\*)  
(Hydrology) (Hydrometeorology)

GINKO, Sergey Sergeyevich; IVANOV, K.Ye., otv.red.; SHATILINA, M.K.;  
red.; FLAUM, M.Ya., tekhn.red.

[Principles of hydraulic engineering] Osnovy gidrotekhniki.  
Leningrad, Gidrometeor. izd-vo, 1958. 362 p. (MIRA 12:1)  
(Hydraulic engineering)

ZAYKOV, Boris Dmitriyevich, prof., doktor geograf.nauk; CHEBOTAREV,  
A.I., otv.red.; SHATILINA, M.K., red.; BRAYNINA, M.I.,  
tekhn.red.

[Studies in limnology] Ocherki po ozerovedeniiu. Leningrad,  
Gidrometeor.izd-vo. Pt.2. 1960. 238 p. (MIRA 13:?)  
(Limnology)

BRASLAVSKIY, A.P.; VIKULINA, Z.A.; CHEBOTAREV, A.I., kandidat tekhnicheskikh nauk, redaktor; SHATILINA, M.K., redaktor; SOLOVEYCHIK, A.A., tekhnicheskiy redaktor.

[Rates of evaporation from the surface of reservoirs] Normy ispareniia s poverkhnosti vodokhranilishch. Pod red. A.I.Chebotareva. Leningrad, Gidrometeorologicheskoe izd-vo, 1954. 211 p.(MLR 8:1)  
(Reservoirs) (Evaporation)

GONCHAROV, Vitaliy Nikolayevich, professor, doktor tekhnicheskikh nauk;  
CHEBOTAREV, A.I., redaktor; SHATILINA, M.K., redaktor; SOLOVEYCHIK,  
A.A., tekhnicheskiy redaktor; BRAYNINA, M.I., tekhnicheskiy  
redaktor.

[Principles of the dynamics of river-bed flow] Osnovy dinamiki  
ruslovykh potokov. Leningrad, Gidrometeorologicheskoe izd-vo,  
1954. 451 p.  
(Hydraulics)

GINKO, Sergey Ssrgyevich; ZVORYKIN, K.A., redaktor; SHATILINA, M.K.,  
redaktor; FLAUM, M.Ya., tekhnicheskiy redaktor.

[Water power resources of the U.S.S.R.; their investigation  
and utilization] Vodnoenergeticheskie bogatstva SSSR; ikh izu-  
chenie i ispol'zovanie. Leningrad, Gidrometeorologicheskoe izd-  
vo, 1955. 195 p. (Hydroelectric power) (MLRA 9:6)

ALEKSEYEV, Georgiy Anisimovich, doktor tekhnicheskikh nauk; SHATILINA,  
M.K., redaktor; CHEBOTAREV, A.I., kandidat tekhnicheskikh nauk,  
redaktor; BRAYNINA, M.I., tekhnicheskiy redaktor

[Calcuclations of the flood runoff of rivers of the U.S.S.R.; a  
practical manual] Raschety pavodochnogo stoka rek SSSR; praktiche-  
skoe posobie. Leningrad, Gidrometeorologicheskoe izd-vo, 1955.  
197 p.

(MLRA 9:2)

(Rivers) (Runoff)

KOMAROV, Valentin Dmitriyevich; SOLOV'OV, N.V., redaktor; SHATILINA, I.K., redaktor; SOLOVEYCHIK, A.A., tekhnicheskiy redaktor.

[Hydrological analysis and forecasting spring floods of rivers in flat country] Gidrologicheskii analiz i prognoz vesennego polovod'ia ravninnykh rek. Leningrad, Gidrometeorologicheskoe izd-vo, 1955. 303 p.  
(Floods)

(MLRA 8:11)

БАРИСТАН, ИАКЕ.

VORONKOV, Pavel Pavlovich, kandidat geograficheskikh nauk; ZAYKOV, B.D.  
redaktor, doktor geograficheskikh nauk, professor; SHATILINA,  
Y.K., redaktor; SOLOVEYCHIK, A.A., tekhnicheskiy redaktor

[Formation of the chemical cortitution of surface water of steppe  
and wooded steppe zones of the European territories of the U.S.S.R.  
Formirovanie khimicheskogo sostava poverkhnostnykh vod steppoi  
i lesostepnoi zon Evropeiskoi teritorii SSSR. Pod Red. B.D.Zaikova.  
Leningrad, Gidrometeorologicheskoe izd-v, 1955. 350 p.(MLRA 8:10)  
(Water--Analysis) (Steppes)

MAKAREVICH, T.N., kandidat geograficheskikh nauk; SPENGLER, O.A., kandidat geograficheskikh nauk, redaktor; SHATILINA, M.K., redaktor; FLAUM, M.Ya., redaktor

[Methodology of long-term forecasts of the freezing rivers in northwestern U.S.S.R.] Metodika dolgosrochnogo prognoza zamerzaniia rek Severo-zapada SSSR. Leningrad, Gidrometeor. izd-vo, 1956.  
74 p. (Leningrad, Gosudarstvennyi gidrologicheskiy institut.  
Trudy no.58 (112)) (MIRA 10:7)  
(Ice on rivers, lakes, etc.)

VOSKRESENSKIY, Konstantin Petrovich; ANDREYANOV, V.G., redaktor; SHATILINA, M.K., redaktor; SOLOVEYCHIK, A.A., tekhnicheskiy redaktor.

[Hydrological calculations in designing installations on small rivers, creeks and seasonal streams; principal methods and practices] Gidrologicheskie raschety pri proektirovaniyu sooruzhenii na malykh rekakh, ruch'iah i vremennykh vodotokakh; metodicheskie osnovy i praktika.. Leningrad, Gidrometeorologicheskoe izd-vo, 1956. 467 p. (MLRA 9:6) (Hydraulic engineering)

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Popov, Yevgeniy Grigor'yevich

Gidrologicheskiye prognozy (Hydrological Forecasts) Leningrad, Gidrometeoizdat, 1957. 460 p. 3,100 copies printed.

Resp. Ed.: Gurevich, M. I.; Ed.: Shatilina, M. K.; Tech. Ed.: Braynina, M. I.

PURPOSE: This is a textbook for hydrometeorological tekhnikums and is approved by the Main Administration of the Hydrometeorological Service (UGMS).

COVERAGE: The book discusses the Soviet hydrological forecast service and its importance to the national economy and for defense. It also evaluates the hydropotential of Russian rivers. Main emphasis is put on long-term forecasting of ice and water level conditions. The following outstanding hydro-

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## Hydrological Forecasts (cont.)

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ologists of the last 25 years are mentioned: Apollov, B.A.; Velikanov, M.A.; L'vovich, M.I.; Ogiyevskiy, A.V.; Bregman, G.R.; Kalinin, G.P.; Vangengeym, G.Ya.; Belinkov, S.Yu.; Gurevich, M.I.; Davydov, L.K.; Komarov, V.D.; Piotrovich, V.V.; and Shulyakovskiy, L.G.

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(Gas and oil engines)

SHATILOV, A. I.

AID P - 2380

Subject : USSR/Engineering

Card 1/1 Pub 28 - 1/7

Author : Shatilov, A. I.

Title : Gas generating installation with 135 HP engine

Periodical : Energ. byul., 7, 1-10, J1 1955

Abstract : This is an account of the newly designed 6GCh-18/26 stationary engine (6-cylinder, 135 HP and 750 rpm) operating on gas produced from either wood or anthracite. The gas-generating attachments are described with diagrams. The tests conducted on both apparatuses are fully presented and illustrated in graphs and tables.

Institution: Central Diesel Scientific Research Institute (TsNIDI).

Submitted : No date

SHATILOV, A.L., inzhener.

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Je '56. (Waste heat) (MIRA 9:9)

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